

Freeform Search

Database:	<div style="border: 1px solid black; padding: 2px;"> US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins </div>
Term:	<div style="border: 1px solid black; padding: 2px;"> L1 and hollow fibers and immersed </div>
Display:	<div style="border: 1px solid black; padding: 2px;">10</div> Documents in Display Format: <div style="border: 1px solid black; padding: 2px;">CIT</div> Starting with Number <div style="border: 1px solid black; padding: 2px;">1</div>
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Search History

DATE: Wednesday, December 22, 2004
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Set Name Query

side by side

DB=USPT; PLUR=YES; OP=ADJ

Hit Count Set Name

result set

<u>L4</u> l2 and gas and bubbles	4	<u>L4</u>
<u>L3</u> l2 and gas bubbles	2	<u>L3</u>
<u>L2</u> L1 and hollow fibers and immersed	26	<u>L2</u>
<u>L1</u> 3228876	192	<u>L1</u>

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L2: Entry 3 of 4

File: JPAB

Mar 1, 1994

DOCUMENT-IDENTIFIER: JP 06055040 A

TITLE: MANUFACTURE OF HOLLOW FIBER MEMBRANE MODULEAbstract Text (1):

PURPOSE: To use thermosetting resin of a high cure contraction coefficient and to manufacture a module in good yield by bonding and fixing both ends of a bundle consisting of a lot of hollow fiber membranes with containers other than a housing before housing the bundle to bond the hollow yarn membrane bundle and the housing together.

Abstract Text (2):

CONSTITUTION: The both ends of a hollow fiber membrane bundle consisting of a lot of hollow fiber membranes 1 are inserted into cylindrical containers made of silicone rubber and thermosetting resin such as epoxy acrylate resin is injected therein by a centrifugal adhesion method, and after the resin has been hardened, the bonded parts 2 are removed from the containers made of silicone rubber. Next, the hollow fiber membrane bundle is housed in another cylindrical housing made of stainless steel, etc., and the hollow fiber membrane bundle and the housing are bonded together and fixed by a thermosetting resin. After hardening, the bonded end parts are cut to turn the bundle into a hollow yarn membrane module.

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Generate OACS				

Search Results - Record(s) 21 through 30 of 30 returned.

☐ 21. Document ID: JP 04317725 A

L5: Entry 21 of 30

File: JPAB

Nov 9, 1992

PUB-NO: JP404317725A

DOCUMENT-IDENTIFIER: JP 04317725 A

TITLE: HOLLOW FIBER MEMBRANE MODULE

PUBN-DATE: November 9, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

DOI, SHOICHI

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02; B01D 65/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
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☐ 22. Document ID: JP 04004024 A

L5: Entry 22 of 30

File: JPAB

Jan 8, 1992

PUB-NO: JP404004024A

DOCUMENT-IDENTIFIER: JP 04004024 A

TITLE: HOLLOW FIBER-LIKE POROUS SEPARATING MEMBRANE ELEMENT AND PRODUCTION THEREOF

PUBN-DATE: January 8, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

KANAZAWA, SHINICHI

YAMANOUCHI, SHOSUKE

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
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☐ 23. Document ID: JP 03131324 A

L5: Entry 23 of 30

File: JPAB

Jun 4, 1991

PUB-NO: JP403131324A

DOCUMENT-IDENTIFIER: JP 03131324 A

TITLE: HOLLOW FIBER MEMBRANE MODULE AND PREPARATION THEREOF

PUBN-DATE: June 4, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

YANASE, SATOSHI

HAMANAKA, KATSUHIKO

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 24. Document ID: JP 03098571 A

L5: Entry 24 of 30

File: JPAB

Apr 24, 1991

PUB-NO: JP403098571A

DOCUMENT-IDENTIFIER: JP 03098571 A

TITLE: CELL CULTURE CONTAINER AND CELL CULTURE

PUBN-DATE: April 24, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

ENOMOTO, KANEHIKO

YONEYAMA, HIROAKI

MIYAMORI, TAKAO

SAKIMAE, AKIHIRO

NUMAZAWA, RYOZO

US-CL-CURRENT: 435/297.4

INT-CL (IPC): C12M 3/00; C12N 5/06

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 25. Document ID: JP 02124702 A

L5: Entry 25 of 30

File: JPAB

May 14, 1990

PUB-NO: JP402124702A

DOCUMENT-IDENTIFIER: JP 02124702 A
TITLE: OXYGEN ENRICHER

PUBN-DATE: May 14, 1990

INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMOTO, KENJI

TOZAWA, OSAMI

IWAMA, AKIO

US-CL-CURRENT: 96/4

INT-CL (IPC): C01B 13/02; B01D 53/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KUMC	Draw D
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☐ 26. Document ID: JP 401207114 A

L5: Entry 26 of 30

File: JPAB

Aug 21, 1989

PUB-NO: JP401207114A

DOCUMENT-IDENTIFIER: JP 401207114 A

TITLE: FORMATION OF HIGH QUALITY GAS FOR INSTRUMENTATION APPLICATION FROM
COMPRESSED AIR

PUBN-DATE: August 21, 1989

INVENTOR-INFORMATION:

NAME

COUNTRY

RICE, ARTHUR W

MURPHY, MILTON K

FREEMAN, JOHN J

INT-CL (IPC): B01D 53/22; B01D 53/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KUMC	Draw D
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☐ 27. Document ID: JP 01104271 A

L5: Entry 27 of 30

File: JPAB

Apr 21, 1989

PUB-NO: JP401104271A

DOCUMENT-IDENTIFIER: JP 01104271 A

TITLE: MEMBRANE TYPE OXYGENATOR

PUBN-DATE: April 21, 1989

INVENTOR-INFORMATION:

NAME

COUNTRY

ANAZAWA, TAKANORI
MURATA, KAZUTAKA
AKASU, HIROYUKI
MIMURA, RISHICHI

INT-CL (IPC): A61M 1/18; B01D 13/00; B01D 13/01; B01D 13/04; B01D 53/22

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 28. Document ID: JP 63309177 A

L5: Entry 28 of 30

File: JPAB

Dec 16, 1988

PUB-NO: JP363309177A
DOCUMENT-IDENTIFIER: JP 63309177 A
TITLE: CULTURE TANK PROVIDED WITH HOLLOW FIBER GAS-SEPARATION MODULE MADE OF SILICONE RUBBER

PUBN-DATE: December 16, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

FURUSAWA, KICHIO

NAGAYANAGI, SADAMI

US-CL-CURRENT: 435/297.2

INT-CL (IPC): C12M 3/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 29. Document ID: JP 63024890 A

L5: Entry 29 of 30

File: JPAB

Feb 2, 1988

PUB-NO: JP363024890A
DOCUMENT-IDENTIFIER: JP 63024890 A
TITLE: SEPARATION AND CONCENTRATION OF FERMENTATION PRODUCT

PUBN-DATE: February 2, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

OOYA, HARUHIKO

MATSUMOTO, KANJI

ARITA, MASUJIRO

SUGIMOTO, YUKINOBU

US-CL-CURRENT: 435/41

INT-CL (IPC): C12P 1/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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30. Document ID: JP 58040102 A

L5: Entry 30 of 30

File: JPAB

Mar 9, 1983

PUB-NO: JP358040102A

DOCUMENT-IDENTIFIER: JP 58040102 A

TITLE: SEPARATION OF MIXED LIQUID

PUBN-DATE: March 9, 1983

INVENTOR-INFORMATION:

NAME

COUNTRY

MOCHIZUKI, AKIRA

KUSUDO, OSAMU

HAMAMOTO, YOSHITO

TANAKA, YOSHIKI

US-CL-CURRENT: 210/644

INT-CL (IPC): B01D 13/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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Terms

Documents

hollow fibers and membranes and silicone

30

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Search Results - Record(s) 21 through 30 of 30 returned.

☐ 21. Document ID: JP 04317725 A

L5: Entry 21 of 30

File: JPAB

Nov 9, 1992

PUB-NO: JP404317725A

DOCUMENT-IDENTIFIER: JP 04317725 A

TITLE: HOLLOW FIBER MEMBRANE MODULE

PUBN-DATE: November 9, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

DOI, SHOICHI

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02; B01D 65/00

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DOCUMENT-IDENTIFIER: JP 04004024 A

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PUBN-DATE: January 8, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

KANAZAWA, SHINICHI

YAMANOUCI, SHOSUKE

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02

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COUNTRY

YANASE, SATOSHI

HAMANAKA, KATSUHIKO

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02

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YONEYAMA, HIROAKI

MIYAMORI, TAKAO

SAKIMAE, AKIHIRO

NUMAZAWA, RYOZO

US-CL-CURRENT: 435/297.4

INT-CL (IPC): C12M 3/00; C12N 5/06

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☐ 25. Document ID: JP 02124702 A

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May 14, 1990

PUB-NO: JP402124702A

DOCUMENT-IDENTIFIER: JP 02124702 A
TITLE: OXYGEN ENRICHER

PUBN-DATE: May 14, 1990

INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMOTO, KENJI

TOZAWA, OSAMI

IWAMA, AKIO

US-CL-CURRENT: 96/4

INT-CL (IPC): C01B 13/02; B01D 53/22

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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L5: Entry 26 of 30

File: JPAB

Aug 21, 1989

PUB-NO: JP401207114A

DOCUMENT-IDENTIFIER: JP 401207114 A

TITLE: FORMATION OF HIGH QUALITY GAS FOR INSTRUMENTATION APPLICATION FROM
COMPRESSED AIR

PUBN-DATE: August 21, 1989

INVENTOR-INFORMATION:

NAME

COUNTRY

RICE, ARTHUR W

MURPHY, MILTON K

FREEMAN, JOHN J

INT-CL (IPC): B01D 53/22; B01D 53/26

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 27. Document ID: JP 01104271 A

L5: Entry 27 of 30

File: JPAB

Apr 21, 1989

PUB-NO: JP401104271A

DOCUMENT-IDENTIFIER: JP 01104271 A

TITLE: MEMBRANE TYPE OXYGENATOR

PUBN-DATE: April 21, 1989

INVENTOR-INFORMATION:

NAME

COUNTRY

ANAZAWA, TAKANORI
MURATA, KAZUTAKA
AKASU, HIROYUKI
MIMURA, RISHICHI

INT-CL (IPC): A61M 1/18; B01D 13/00; B01D 13/01; B01D 13/04; B01D 53/22

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PUBN-DATE: December 16, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

FURUSAWA, KICHIO
NAGAYANAGI, SADAMI

US-CL-CURRENT: 435/297.2
INT-CL (IPC): C12M 3/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KUMC	Draw D
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☐ 29. Document ID: JP 63024890 A

L5: Entry 29 of 30

File: JPAB

Feb 2, 1988

PUB-NO: JP363024890A
DOCUMENT-IDENTIFIER: JP 63024890 A
TITLE: SEPARATION AND CONCENTRATION OF FERMENTATION PRODUCT

PUBN-DATE: February 2, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

OOYA, HARUHIKO
MATSUMOTO, KANJI
ARITA, MASUJIRO
SUGIMOTO, YUKINOBU

US-CL-CURRENT: 435/41

INT-CL (IPC): C12P 1/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 30. Document ID: JP 58040102 A

L5: Entry 30 of 30

File: JPAB

Mar 9, 1983

PUB-NO: JP358040102A

DOCUMENT-IDENTIFIER: JP 58040102 A

TITLE: SEPARATION OF MIXED LIQUID

PUBN-DATE: March 9, 1983

INVENTOR-INFORMATION:

NAME

COUNTRY

MOCHIZUKI, AKIRA

KUSUDO, OSAMU

HAMAMOTO, YOSHITO

TANAKA, YOSHIKI

US-CL-CURRENT: 210/644

INT-CL (IPC): B01D 13/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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Terms	Documents
hollow fibers and membranes and silicone	30

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